

**PATENT**

**INSTITUT FRANÇAIS DU PÉTROLE**

**DISTRIBUTION DEVICE FOR PRODUCING A POLYPHASE MIXTURE, AND**

**ASSOCIATED REACTOR**

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**A B S T R A C T**

A device for producing and distributing a polyphase mixture between two fluids comprises a chamber for the passage of a first fluid, said chamber being pierced by perforated tubes or conduits to pass a second fluid in a different physical state than the first fluid or not miscible with the first fluid through the chamber, said tubes being pierced by at least one orifice allowing passage of the first fluid and mixing between the fluids via the tubes. The second fluid is injected upstream of said device and the first fluid is injected into said device.

Figure 3 to be published